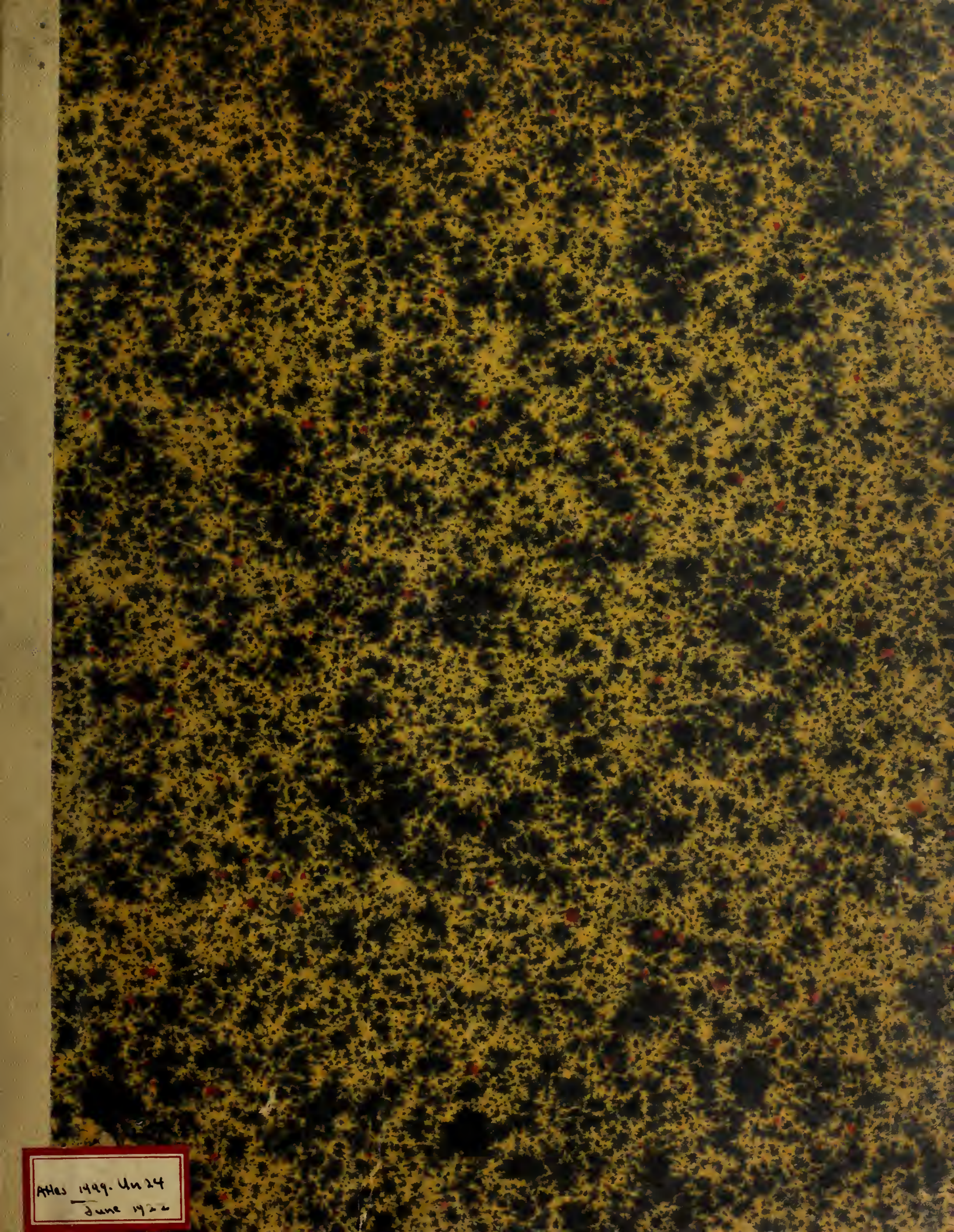

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Serial No. 203

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. LESTER JONES, DIRECTOR

CATALOGUE

OF

CHARTS, COAST PILOTS, AND TIDE TABLES

OF THE

PHILIPPINE ISLANDS

PUBLISHED BY THE U. S. COAST AND GEODETIC SURVEY

JUNE 1, 1922

BOSTON PUBLIC LIBRARY

WASHINGTON
GOVERNMENT PRINTING OFFICE
1922

Serial No. 203

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EXPLANATION OF DATES ON U. S. COAST AND GEODETIC SURVEY CHARTS.

All U. S. Coast and Geodetic Survey charts bear below the border line a note indicating the date on which they were issued from the office in Washington, D. C. The form of this note is—

LIGHTS, BEACONS, BUOYS, AND DANGERS CORRECTED

FOR INFORMATION RECEIVED TO DATE OF ISSUE (date).

It should be understood that no additional information relative to lights, beacons, buoys, and dangers which could be charted had been received previous to this date. It is therefore unnecessary for a mariner to examine his file of Notice to Mariners of date prior to the date of issue of the chart for such corrections.

Other dates which appear on these charts are of less importance to mariners, but are necessary for the identification of the edition and print of the chart, and should be understood by those who use the chart.

A note, known as the authority note, gives the dates (years) of the surveys from which the chart was constructed. This note reads as follows:

AUTHORITIES:

SURVEYS (date).

The surveys are by the U. S. Coast and Geodetic Survey unless otherwise stated.

When a new chart is issued, the date (month and year) is printed in the publication note.

PUBLISHED AT WASHINGTON, D. C. (date),

BY THE U. S. COAST AND GEODETIC SURVEY

E. LESTER JONES, *Director.*

This note is always placed just below the border of the chart and as near a central position as possible. The date in this note remains unchanged until an extensive correction is made on the plate from which the chart is printed. The date is then changed and the issue known as a new edition.

When a correction, not of sufficient importance to require a new edition, is made to a chart plate, the year, month, and day are noted below the border in the left-hand corner of the chart, thus: 20-6/30, 7/22, 21-2/3, 5/27.

EXPLANATORY NOTES.

The charts embraced in this catalogue are constructed on different scales in order to adapt them to the different conditions of navigation. The small-scale charts include large areas and are suited to offshore navigation, while those on large scale include small areas and are suited to alongshore navigation.

They are classified as follows:

SAILING CHART.—Scale, 1 : 1,600,000.

It is intended for the use of the navigator to fix his position as he approaches the coast from the open ocean or when sailing between distant coast ports. It shows the offshore soundings, the principal lights and outer buoys and such natural landmarks as may be visible at a considerable distance.

GENERAL CHARTS OF THE COAST.—Scales from 1 : 400,000 to 1 : 800,000. They are intended for coastwise navigation when the vessel's course would mostly be within sight of land, with her position fixed by landmarks, lights, outer buoys, and characteristic soundings.

COAST CHARTS.—Scales from 1 : 100,000 to 1 : 200,000. They are intended for close coastwise navigation when a vessel's course would carry her inside outlying reefs and shoals; also for entering bays and harbors of considerable width and for navigating the large inland waterways.

HARBOR CHARTS.—Scales from 1 : 5,000 to 1 : 80,000. They are intended for navigation of harbors and small waterways.

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Explanatory notes	2
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CHARTS, COAST PILOTS, TIDE TABLES, AND NOTICE TO MARINERS RELATING TO THE PHILIPPINE ISLANDS PUBLISHED BY THE U. S. COAST AND GEODETIC SURVEY.

The charts are arranged in this catalogue in numerical order and the limits of the charts are graphically shown on diagrams on adjoining pages.

Agencies for the sale of the charts, coast pilots, and tide tables of the U. S. Coast and Geodetic Survey.

Philippine Islands:

Cebu—Pacific Commercial Co.

Iloilo—Hoskyn & Co.

Manila—* Luzon Stevedoring Co., Water front foot of Calle Madrid.

† U. S. Coast and Geodetic Survey Field Station, Intendencia Building.

Zamboanga—Ohta Development Co.

Hawaii:

Honolulu—Hawaiian News Co.

Agents marked with an asterisk (*) also handle Hydrographic Office publications. Agents marked with a dagger (†) also handle Lighthouse Service publications.

COAST PILOTS.

Philippine Islands, Part 1.—Luzon, Mindoro, and Visayas, 8vo, canvas, 1919. Price, 75 cents.

Philippine Islands, Part 2.—Palawan, Mindanao, and Sulu Archipelago, 8vo, canvas 1921. Price, 75 cents.

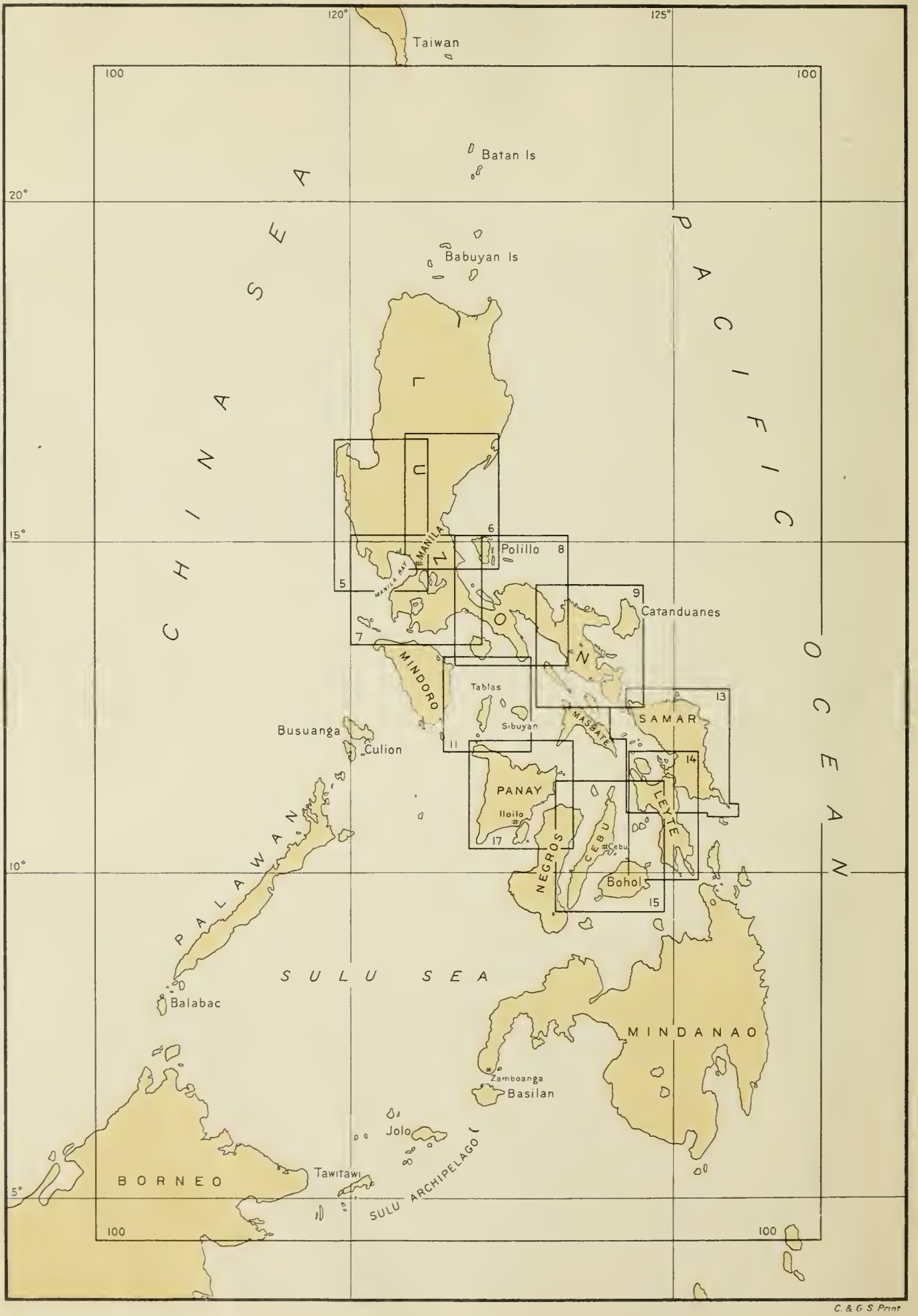
TIDE TABLES.

[Published annually six months in advance.]

	Price.
United States and Foreign Ports	$0.75
Pacific Coast Tide Tables for western North America, eastern Asia, and many island groups	.15

NOTICE TO MARINERS.

Corrections to be applied to charts to keep them up to date and the announcement of new charts, new editions of charts, and new publications of the Philippine Islands are included in the Notice to Mariners, published by the U. S. Coast and Geodetic Survey Field Station, Manila, P. I.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Taiwan
Batan Is
Babuyan Is
CHINA SEA
PACIFIC OCEAN
LUZON
MANILA
MANILA BAY
Polillo
Catanduanes
MINDORO
Tablas
Sibuyan
MASBATE
SAMAR
Busuanga
Culion
PANAY
Iloilo
LEYTE
NEGROS
CEBU
Cebu
Bohol
PALAWAN
SULU SEA
Balabac
MINDANAO
Zamboanga
Basilan
Jolo
BORNEO
Tawitawi
SULU ARCHIPELAGO
5
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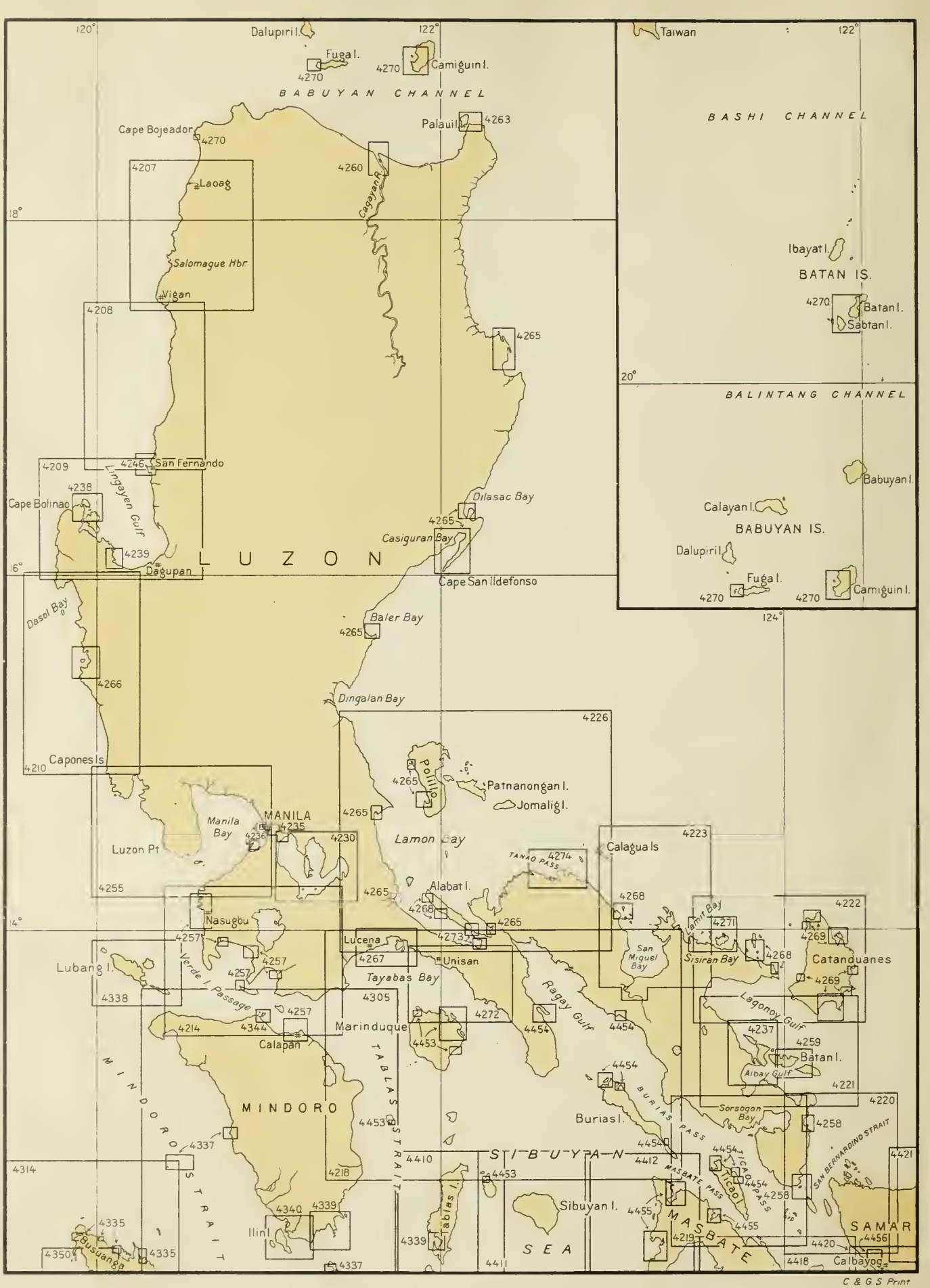
17

C. & G. S. Print

TOPOGRAPHIC MAPS OF THE PHILIPPINE ISLANDS.

Cat. No.	Title.	Scale.	Size.	Date.	Price.	Cat. No.	Title.	Scale.	Size.	Date.	Price.
			Inches.						*Inches.*		
5	Central Luzon	1:200,000	32×50	1912	$0.50	13	Samar and adjacent islands	1:200,000	36×40	1920	$0.75
6	Central Luzon—eastern sheet	1:200,000	31×45	1919	.75	14	Leyte	1:200,000	24×44	1914	.50
7	Southern Luzon	1:200,000	36×44	1913	.50	15	Cebu and Bohol	1:200,000	38×44	1915	.75
8	Southern Luzon—central sheet	1:200,000	39×44	1916	.75	17	Panay	1:200,000	35×38	1912	.50
9	Southern Luzon—southern sheet	1:200,000	36×41	1920	.75	100	Philippine Islands (in four sheets)	1:1,000,000	50×78	1918	2.00
11	Islands of Tablas, Romblon, and Sibuyan	1:200,000	30×32	1913	.50						


Dalupiri I.
Fuga I.
4270
Camiguin I.
BABUYAN CHANNEL
Cape Bojeador
Palaui I.
4263
4207
Laoag
Cagayan R.
Salomague Hbr.
Vigan
4208
4265
4209
San Fernando
Lingayen Gulf
Cape Bolinao
4238
Dilasac Bay
Casiguran Bay
LUZON
Dagupan
Cape San Ildefonso
Dasol Bay
Baler Bay
4266
Dingalan Bay
4226
Capones Is.
4210
Polillo
Patnanongan I.
Jomalig I.
Manila Bay
MANILA
Luzon Pt.
Lamon Bay
4223
Calaguas Is.
TANAO PASS
4255
Alabat I.
Nasugbu
Lucena
Unisan
Tayabas Bay
Lubang I.
Verde I. Passage
Lamit Bay
Sisiran Bay
San Miguel Bay
Catanduanes
Lagonoy Gulf
4338
Ragay Gulf
Marinduque
Calapan
Batan I.
Albay Gulf
MINDORO
TABLAS STRAIT
Burias I.
BURIAS PASS
Sorsogon Bay
SAN BERNARDINO STRAIT
4314
SIBUYAN SEA
MASBATE PASS
Ticao
Sibuyan I.
Tablas I.
Ilin I.
Busuanga
MASBATE
SAMAR
Calbayog
Taiwan
BASHI CHANNEL
Ibayat I.
BATAN IS.
Batan I.
Sabtan I.
BALINTANG CHANNEL
Babuyan I.
Calayan I.
BABUYAN IS.
Dalupiri I.
Fuga I.
Camiguin I.

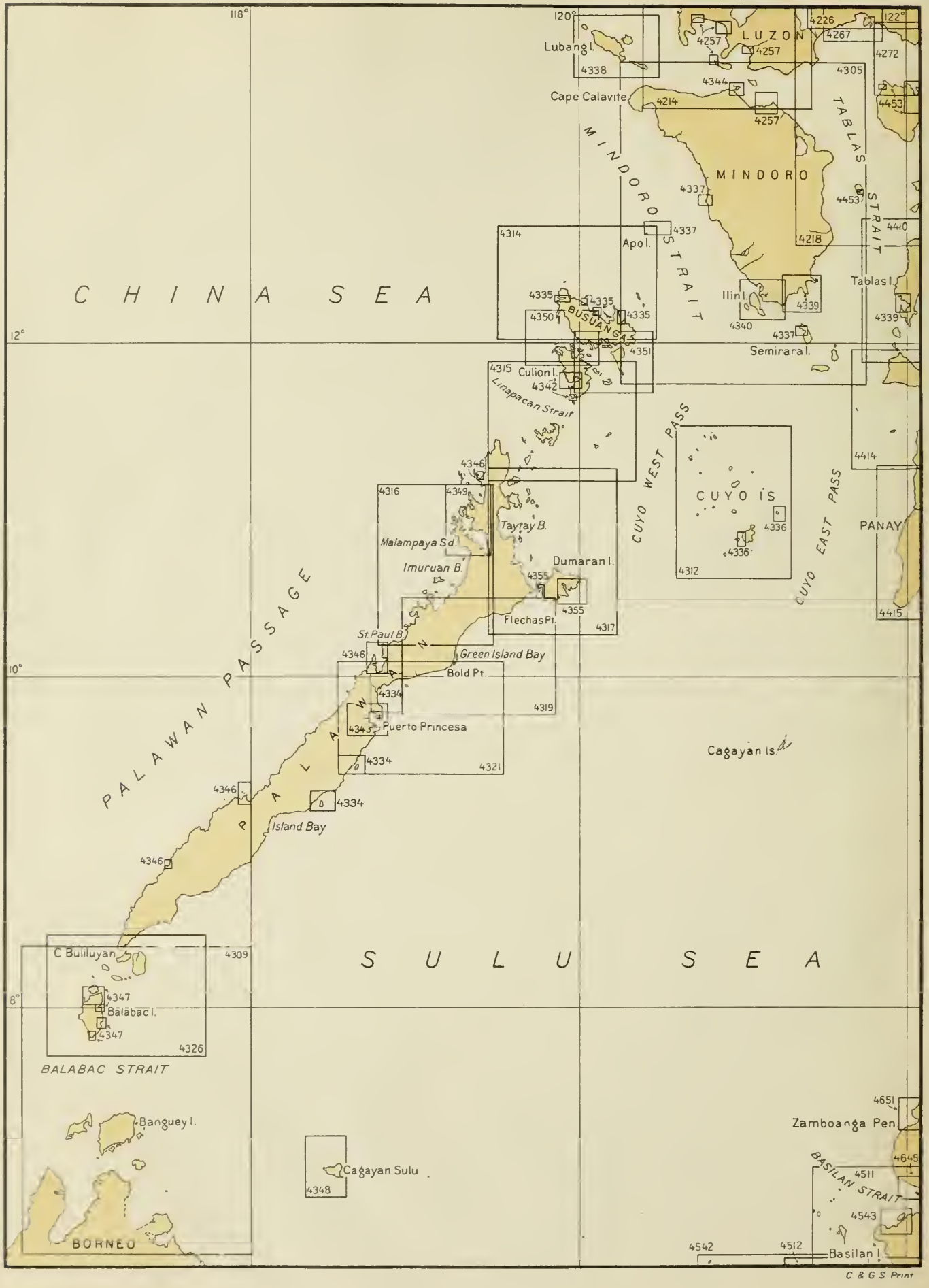
C & G S Print

CHARTS OF THE PHILIPPINE ISLANDS.

[Numerical arrangement.]

Cat. No.	Title.	Scale.	Size of border (inches).	Date of last edition.	Price.
	COAST AND HARBOR CHARTS.				
4200	Philippine Islands (see p. 15 for diagram)	1:1,600,000	33×49	1918	$0.75
4207	Laoag to Vigan, Luzon, I	1:100,000	31×41	1906	.75
	Port Currimao and Gan Bay	1:20,000			
	Salomague Harbor and Lapog Bay	1:20,000			
4208	Solvec Cove to San Fernando; Luzon, I	1:100,000	31×42	1906	.75
	Solvec Cove	1:10,000			
	San Esteban and Nalvo Bay	1:20,000			
	Santiago Cove	1:10,000			
	Darigayos Inlet	1:10,000			
4209	Lingayen Gulf; Luzon, I	1:100,000	31×42	1912	.75
	Dagupan	1:20,000			
4210	Capones Islands to Dasol Bay; Luzon, I	1:125,000	24×41	1915	.75
	Santa Cruz Inner Harbor	1:30,000			
	Iba Anchorage	1:30,000			
4214	Verde Island Passage	1:125,000	31×37	1915	.75
4218	Ragay Gulf to Tayabas Bay; Luzon, I	1:200,000	32×45	1920	.75
4219	Passages between Luzon and Masbate and Sorsogon Bay	1:100,000	35×39	1919	.75
4220	San Bernardino Strait; Luzon and Samar, Is	1:100,000	30×41	1917	.75
	Biri Anchorage	1:20,000			
	Mauo River	1:10,000			
4221	Albay Gulf and part of Lagonoy Gulf; Luzon, I	1:100,000	28×40	1911	.75
4222	Lagonoy Gulf to Lamit Bay and Catandunes Island; Luzon, I	1:100,000	32×43	1909	.75
4223	San Miguel and Lamit Bays; Luzon, I	1:100,000	29×41	1913	.75
	Continuation of Bicol River	1:100,000			
4226	Lamon Bay and Polillo Island	1:200,000	31×35	1921	.75
4230	Laguna de Bay	1:60,000	29×34	1921	.75
	Napindan Channel, Pasig River approach	1:10,000			
4235	Pasig River; Luzon, I	1:10,000	26×42	1913	.75
4236	Manila and Cavite Harbors; Luzon, I		21×35	1921	.50
	Manila Harbor	1:10,000			
	Cavite Harbor	1:10,000			
4237	Tabaco Bay to Legaspi and western part of Albay Gulf; Luzon, I	1:40,000	32×41	1908	.75
4238	Bolinao Harbor and approaches; Luzon, I	1:20,000	35×36	1911	.75
4239	Port Sual to Comas Island; Luzon, I	1:15,000	23×38	1904	.50
4246	San Fernando Harbor; Luzon, I	1:15,000	25×28	1906	.50
4255	Manila Bay and Coast of Luzon to Capones Islands; Luzon, I	1:125,000	27×37	1920	.75
	Mariveles Harbor	1:20,000			
4257	Anchorages, vicinity of Verde Island Passage		28×36	1907	.75
	Nasugbu and Jamelo Cove; Luzon, I	1:50,000			
	Balayan; Luzon, I	1:10,000			
	Taal and Lemery; Luzon, I	1:10,000			
	Batangas; Luzon, I	1:15,000			
	Port Maricaban; Maricaban, I	1:10,000			
	Calapan; Mindoro, I	1:40,000			

Cat. No.	Title.	Scale.	Size of border (inches).	Date of last edition.	Price.
	COAST AND HARBOR CHARTS—Continued.				
4258	Matnog Bay and Ticlin Strait, Luzon, I	1:30,000	18×26	1916	$0.25
	Port Gubat; Luzon, I	1:20,000			
4259	Rapurapu Strait and Calanaga Bay; Batan and Rapurapu, Is	1:30,000	23×31	1906	.50
4260	Aparri Anchorage and part of Cagayan River; Luzon, I	1:25,000	20×33	1915	.25
4263	Port San Vicente and vicinity; Luzon, I	1:20,000	25×27	1916	.25
4265	Harbors on east coast of Luzon; Luzon, I		25×35	1909	.50
	Port Dimalansan and Port Bicobian	1:60,000			
	West Dilasac Bay	1:50,000			
	Casiguran Bay	1:80,000			
	Baler Bay	1:50,000			
	Hook Bay	1:20,000			
	Polillo Harbor	1:30,000			
	Port Lampon	1:20,000			
	Mauban Anchorage	1:20,000			
	Port Apat	1:20,000			
4266	Ports Masinloc and Matalvi and Palauig Bay, Luzon, I	1:25,000	29×32	1907	.50
4267	Lucena Anchorage, Pagbilao Bay and Port Laguimanoc; Luzon, I	1:40,000	25×35	1907	.50
4268	Harbors from Alabat to Pitogo Bay		26×30	1909	.50
	Port Alabat, southwest coast; Alabat, I	1:20,000			
	Sangirin Bay, northwest coast; Alabat, I	1:20,000			
	Tabgon Anchorage, east coast; Luzon, I	1:30,000			
	Canimo Pass and Mercedes, east coast; Luzon, I	1:25,000			
	Pitogo Bay, east coast; Luzon, I	1:15,000			
4269	Harbors of Catanduanes		24×27	1909	.25
	Cabugao Bay, south coast	1:50,000			
	Bagamanoc and Anajao, east coast	1:30,000			
	Cobo Bay, west coast	1:20,000			
	Port Manambrag, west coast	1:20,000			
	Pandan Bay, north coast	1:30,000			
	Jimoto Bay, east coast	1:20,000			
	Kalapadan Bay, east coast	1:30,000			
4270	Harbors of Batan and Babuyan Islands and northern Luzon		23×24	1908	.25
	Part of Batan Islands, including Basco and Ibana	1:40,000			
	Port San Pio Quinto; Camiguin, I	1:60,000			
	Musa Bay; Babuyan, I	1:30,000			
	Dirique Inlet; Luzon, I	1:10,000			
4271	Lamit and Sisiran Bays; Luzon, I	1:30,000	30×41	1909	.75
4272	Unisan to Mulanay and northern part of Marinduque; Luzon and Marinduque, Is	1:70,000	28×38	1910	.75
4273	Silangan Pass and Hondagua Harbor, Luzon, I	1:20,000	17×32	1913	.25
4274	Tanao Pass, Luzon, I	1:40,000	24×36	1921	.50
	4305 to 4350 (see p. 9). 4410 to 4456 (see p. 11).				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8°
CHINA SEA
SULU SEA
LUZON
MINDORO
MINDORO STRAIT
TABLAS STRAIT
Lubang I.
Cape Calavite
Apo I.
Ilin I.
Tablas I.
Semirara I.
BUSUANGA
Culion I.
Linapacan Strait
CUYO WEST PASS
CUYO EAST PASS
CUYO IS
PANAY
PALAWAN PASSAGE
PALAWAN
Taytay B.
Malampaya Sd.
Imuruan B.
Dumaran I.
Flechas Pt.
St. Paul B.
Green Island Bay
Bold Pt.
Puerto Princesa
Island Bay
Cagayan Is.
C. Buliluyan
Balabac I.
BALABAC STRAIT
Banguey I.
Cagayan Sulu
BORNEO
Zamboanga Pen.
BASILAN STRAIT
Basilan I.
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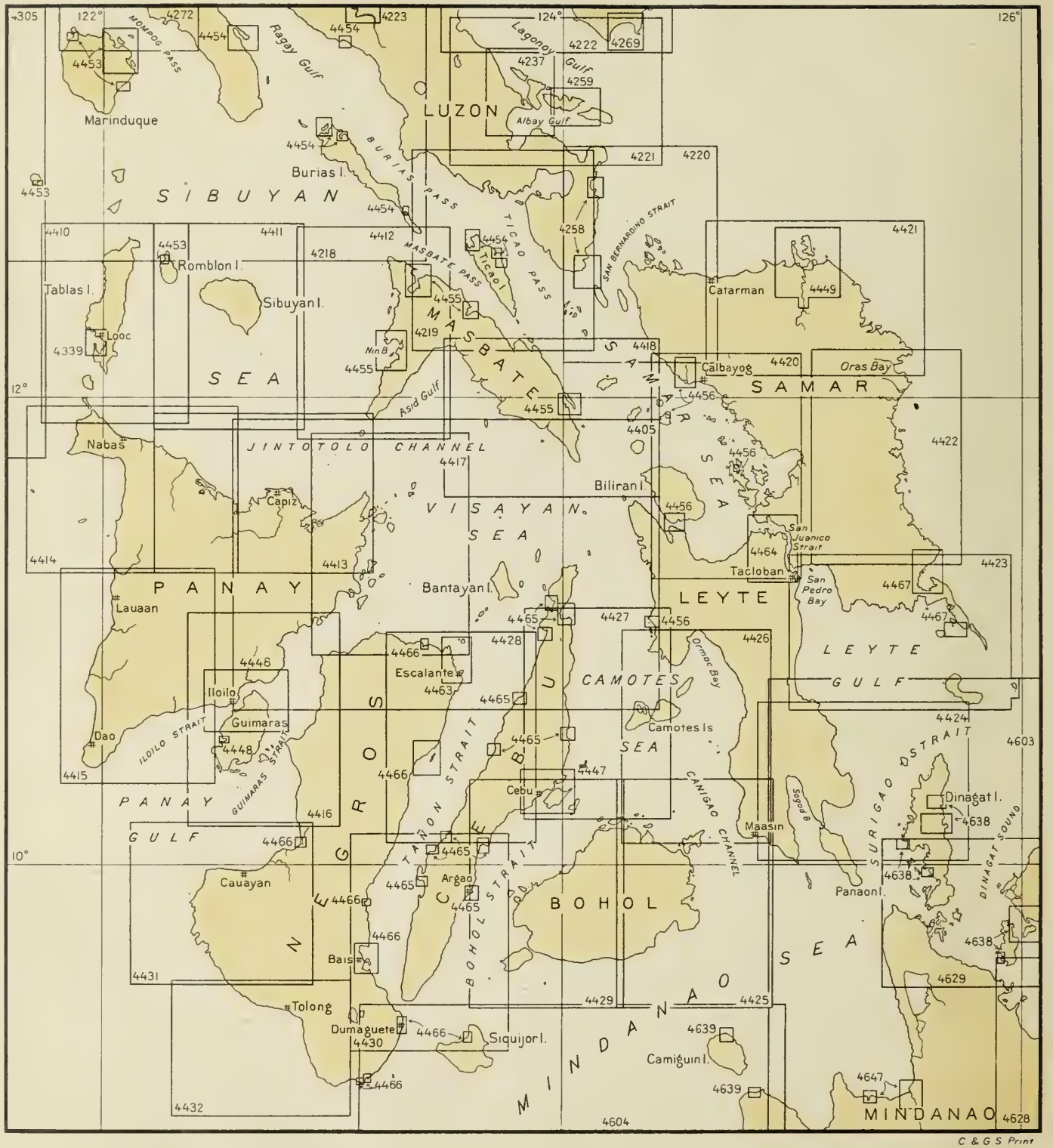
C & G S Print

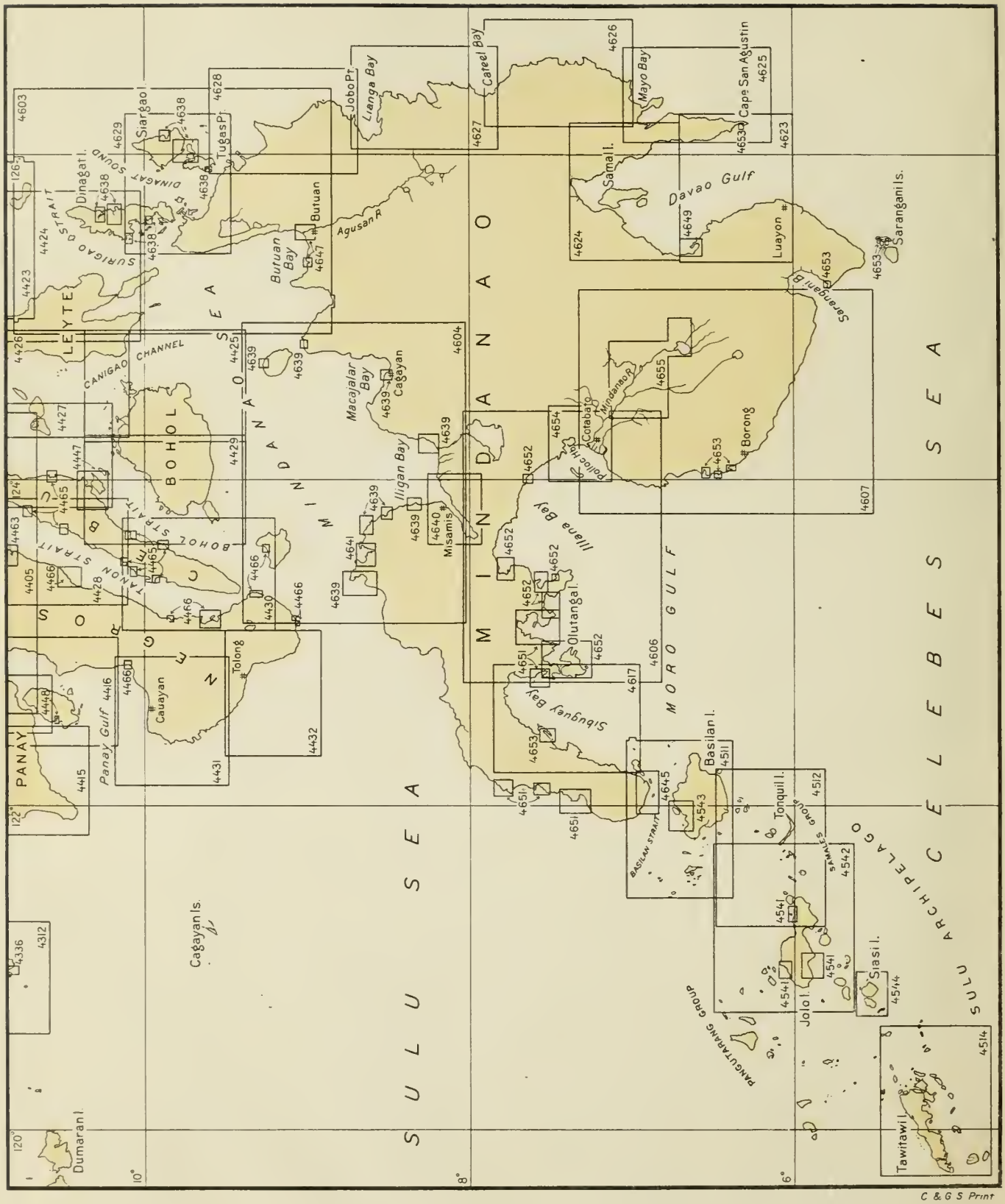
CHARTS OF THE PHILIPPINE ISLANDS—Continued.

Cat. No.	Title.	Scale.	Size of border (inches).	Date of last edition.	Price.
	COAST AND HARBOR CHARTS—Continued.				
	4214 to 4272 (see p. 7).				
4305	Mindoro and vicinity	1:200,000	33×43	1919	$0.75
4309	Balabac Strait	1:200,000	31×42	1921	.75
4312	Cuyo Islands	1:100,000	31×41	1922	.75
4314	Nortbern part of Busuanga	1:100,000	31×42	1919	.75
4315	Palawan to Culion Island, including Linapacan Strait	1:100,000	32×41	1917	.75
4316	Northwest coast of Palawan, Malampaya Sound to St. Paul Bay	1:100,000	31×43	1905	.75
4317	Northeast coast of Palawan, Shark Fin Bay to Flechas Point; Palawan, I	1:100,000	31×44	1918	.75
4319	Green Island Bay and vicinity	1:100,000	31×41	1920	.75
	Bascoc Channel, Green, I	1:20,000			
4321	Bold Point to Malanao Island	1:100,000	31×43	1920	.75
4326	North Balabac Strait and vicinity	1:100,000	32×42	1921	.75
4334	Anchorages East Coast of Palawan		27×39	1921	.75
	Honda Bay	1:40,000			
	Malanao Anchorage	1:40,000			
	Panacan Anchorage	1:40,000			
4335	Harbors on the north coast of Busuanga		18×29	1920	.25
	Minuit Anchorage	1:20,000			
	Illultuk Bay	1:20,000			
	Port Calton	1:20,000			
	Minangas Bay	1:20,000			
4336	Anchorages in Cuyo Islands		29×34	1918	.50
	Tagauayan Islands	1:10,000			
	Cuyo Anchorage and Bisucay Channel	1:10,000			
4337	Anchorages west and south of Mindoro; Mindoro, I		28×36	1916	.75
	Apo Reef	1:20,000			
	Sablayan Anchorage and Pandan Bay	1:20,000			
	Semirara Anchorage	1:20,000			
4338	Lubang Islands	1:60,000	28×38	1914	.75
	Golo Pass	1:20,000			
4339	Anchorages southeastern Mindoro and Tablas Island		25×37	1912	$0.50
	Looc Bay; Tablas, I	1:40,000			
	Lagara Cove and Passes southward; Mindoro, I	1:20,000			
	Buruncan Point to Pocanil Bay; Mindoro, I	1:40,000			
4340	Mangarin and Pandarochan Bays; Mindoro, I	1:40,000	26×30	1911	.50
4342	Halsey Harbor and Dicabaito Anchorage; Culion, I	1:20,000	23×32	1921	.50
	Dicabaito Anchorage	1:20,000			
4343	Puerto Princesa; Palawan, I	1:40,000	23×29	1920	.25
4344	Port Galera and Varadero Bay; Mindoro, I	1:10,000	29×35	1910	.75
4346	Harbors of Palawan Island		26×30	1920	.50
	Bacuit, northwest coast	1:15,000			
	Ulugan Bay, west coast	1:30,000			
	Malanut and Nakoda Bays, west coast	1:30,000			
	Culasian Bay, west coast	1:20,000			
4347	Harbors of Balabac Island		23×28	1920	.25
	Clarendon Bay, south coast	1:15,000			
	Calandorang Bay, east coast	1:15,000			
	Dalawan Bay, east coast	1:20,000			
	Port Ciego, north coast	1:40,000			
4348	Cagayan Sulu and adjacent islands	1:75,000	19×37	1905	.50
	Lapunlapun Anchorage	1:15,000			
4349	Malampaya Sound and approaches; Palawan, I	1:50,000	25×38	1908	.50
4350	Western entrance to Coron Bay; Calamian Group	1:50,000	30×39	1919	.75
4351	Coron Bay; Calamian Group	1:50,000	33×41	1916	.75
	Culion Landing	1:2,000			
4355	Harbors on Dumaran Island	1:20,000	33×38	1920	.75
	Dumaran Bay	1:20,000			
	4410 to 4453 (see p. 11).				
	4511 to 4651 (see p. 13).				


LUZON
SIBUYAN SEA
MASBATE
SAMAR
LEYTE
PANAY
NEGROS
BOHOL
MINDANAO
VISAYAN SEA
SAMAR SEA
LEYTE GULF
PANAY GULF
CAMOTES SEA
BOHOL SEA
Marinduque
Burias I.
Romblon I.
Tablas I.
Sibuyan I.
Looc
Masbate
Ticao I.
Catarman
Calbayog
Oras Bay
Nabas
Capiz
Biliran I.
Tacloban
San Pedro Bay
San Juanico Strait
Lauaan
Bantayan I.
Escalante
Iloilo
Guimaras
Dao
Camotes Is
Ormoc Bay
Cebu
Maasin
Dinagat I.
Surigao Strait
Dinagat Sound
Panaon I.
Cauayan
Argao
Bais
Tolong
Dumaguete
Siquijor I.
Camiguin I.
Ragay Gulf
Lagonoy Gulf
Albay Gulf
Asid Gulf
Mompog Pass
Burias Pass
Ticao Pass
San Bernardino Strait
Jintotolo Channel
Iloilo Strait
Guimaras Strait
Tañon Strait
Bohol Strait
Canigao Channel
122°
124°
126°
12°
10°

C & G S Print

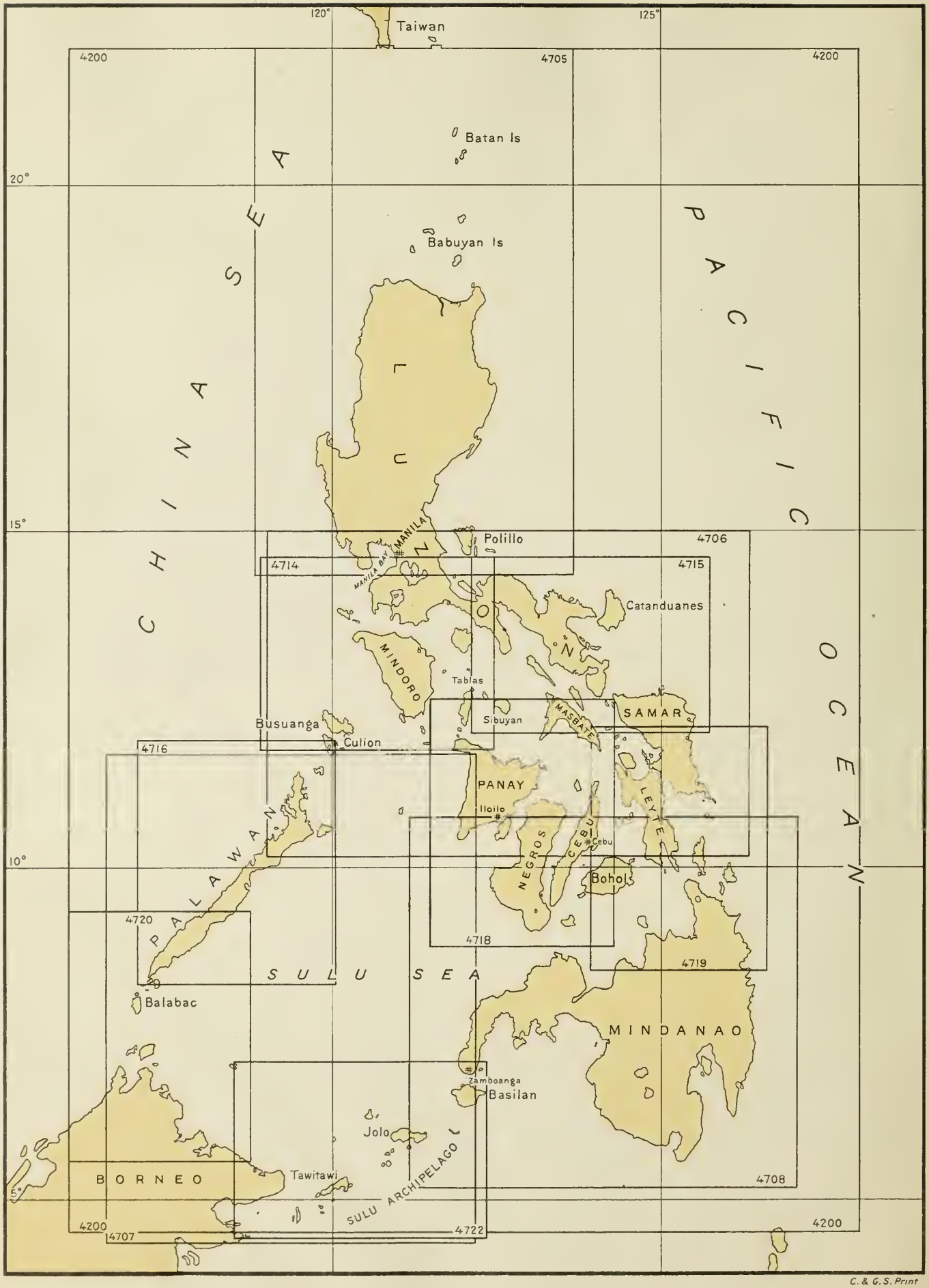
Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.
	COAST AND HARBOR CHARTS—Continued.				
	4218 to 4272 (see p. 7). 4305 to 4339 (see p. 9).				
4405	Visayan Sea	1:200,000	28×41	1914	$0.75
4410	Tablas Island and vicinity	1:100,000	28×38	1913	.75
4411	Sibuyan and Romblon Islands	1:100,000	29×39	1914	.75
4412	Western Masbate	1:100,000	30×40	1917	.75
4413	Northern Panay, Sigat Point to Bulacaue Point	1:100,000	30×42	1919	.75
	Capiz Bay	1:30,000			
	Port Batan	1:30,000			
4414	Northwestern Panay	1:100,000	32×40	1917	.75
4415	Southwestern Panay	1:100,000	30×40	1921	.75
	San Jose De Buenavista	1:10,000			
4416	Iloilo and Guimaras Straits; Panay and Guimaras, Is.	1:100,000	30×41	1919	.75
4417	Northeastern Panay and adjacent islands	1:100,000	31×42	1911	.75
4418	Southeast Masbate	1:100,000	30×41	1915	.75
4420	Calbayog to Tacloban; Samar and Leyte, Is.	1:100,000	29×42	1914	.75
	Catbalogan Harbor	1:35,000			
4421	Catarman to Oras Bay; Samar, I.	1:100,000	30×42	1908	.75
	Helm Harbor and San Ramon Bay	1:25,000			
4422	Oras Bay to Matarinao Bay; Samar, I.	1:100,000	29×41	1908	.75
	Port Libas	1:30,000			
	Port Borongan	1:30,000			
	Llorente and vicinity	1:30,000			
4423	Southern part of Samar and San Pedro Bay	1:100,000	30×43	1910	.75
4424	Southeast coast of Leyte and Dinagat Island	1:100,000	31×41	1913	.75
	Liloan Bay and Panaon Strait	1:10,000			
4425	Eastern Bohol and part of Leyte	1:100,000	31×44	1910	.75
4426	Southwest coast of Leyte, Ormoc Bay to Maasin	1:100,000	30×41	1915	.75
	Maasin	1:10,000			
4427	East coast of Cebu; Cebu, I.	1:100,000	28×40	1910	.75
4428	Northern part of Tañon Strait; Negros and Cebu, Is.	1:100,000	29×40	1911	.75
4429	Western Bohol; Bohol, I.	1:100,000	30×44	1911	.75
4430	Tañon Strait, southern part; Cebu and Negros, Is.	1:100,000	31×42	1911	.75
4431	Western Negros	1:100,000	31×36	1914	.75
4432	Southwestern Negros	1:100,000	27×35	1913	.75
4447	Cebu Harbor and approaches; Cebu, I.	1:30,000	28×35	1910	.50
	Cebu Anchorage	1:10,000			
4448	Iloilo Strait and Harbor; Panay, I.	1:50,000	24×32	1919	.50
	Iloilo River	1:10,000			
	Santa Ana Bay	1:20,000			
4449	Port Palapag and Laoang Bay; Samar, I.	1:40,000	32×33	1911	.75
4453	Harbors of Marinduque Island and vicinity		29×36	1913	.75
	Port Balanacan, northwest coast; Marinduque, I.	1:10,000			
	Santa Cruz Harbor and Masagasai Bay, northeast coast; Marinduque, I.	1:30,000			
	Torrijos Bay, east coast; Marinduque, I.	1:5,000			
	Port Concepcion; Maestro de Campo, Is.	1:10,000			
	Romblon Harbor, west coast; Romblon, I.	1:10,000			
4454	Harbors on Burias and Ticao Islands and Ragay Gulf		31×33	1920	$0.75
	Port Pusgo, Ragay Gulf; Luzon, I.	1:30,000			
	Pasacao Anchorage, Ragay Gulf; Luzon, I.	1:20,000			
	Port Busin, north coast; Burias, I.	1:20,000			
	Port Busainga, northeast coast; Burias, I.	1:15,000			
	Port Boca Engaño, southeast coast; Burias, I.	1:10,000			
	Port San Miguel, northwest coast; Ticao, I.	1:20,000			
	Port San Jacinto, east coast; Ticao, I.	1:20,000			
	Taclogan Bay, east coast of Ticao, I.	1:20,000			
4455	Harbors on the coast of Masbate		28×37	1917	.75
	Port Barrera, north coast	1:30,000			
	Masbate Harbor, northeast coast	1:20,000			
	Port Cataingan, east coast	1:30,000			
	Nin Bay, west coast	1:30,000			
4456	Harbors of Samar and Leyte		24×28	1914	.25
	Jibatan River, west coast; Samar, I.	1:50,000			
	Santo Niño Harbor; Santo Niño, I.	1:5,000			
	Parasan Harbor; Daram, I.	1:10,000			
	Biliran Strait; Leyte and Biliran, Is.	1:20,000			
	Port Palompon; Leyte, I.	1:10,000			
4463	Escalante Harbor and vicinity; Negros, I.	1:20,000	30×41	1909	.75
4464	San Juanico Strait and Janabatas Channel; Samar and Leyte, Is.	1:30,000	31×40	1910	.75
	Northern entrance to San Juanico Strait	1:10,000			
4465	Harbors in Cebu		25×32	1912	.50
	Hagnaya Bay	1:30,000			
	Tuburan	1:30,000			
	Balamban Bay	1:30,000			
	Lambusan	1:30,000			
	Dumanjug Bay	1:20,000			
	Moalbual	1:20,000			
	Argao	1:25,000			
	Bogo Bay	1:30,000			
	Carcar Bay	1:15,000			
	Port Carmen	1:15,000			
	Barili Bay	1:15,000			
4466	Harbors in Negros and vicinity		32×37	1911	.75
	Dumaguete; Negros, I.	1:10,000			
	Himugaan River; Negros, I	1:15,000			
	Calagcalag Bay; Negros, I.	1:10,000			
	Port Canoan; Siquijor, I.	1:5,000			
	Port Bombonon; Negros, I.	1:10,000			
	Refugio Pass; Negros, I.	1:35,000			
	Bais; Negros, I.	1:30,000			
	Port Siyt; Negros, I.	1:10,000			
	Himamaylan; Negros, I.	1:20,000			
4467	Guiuan Harbor; Samar, I.	1:20,000	19×31	1911	.25
	Pambujan Harbors; Samar, I.	1:35,000			
	4603 to 4647 (see p. 13).				


SULU SEA
MINDANAO
MORO GULF
CELEBES SEA
SULU ARCHIPELAGO
LEYTE
BOHOL
PANAY
Dinagat I.
Siargao I.
Tugas P.
Jobo Pt.
Lianga Bay
Catel Bay
Mayo Bay
Cape San Agustin
Davao Gulf
Samal I.
Luayon
Sarangani Is.
Surigao Strait
Dinagat Sound
Canigao Channel
Bohol Strait
Panay Gulf
Butuan
Butuan Bay
Agusan R.
Macajalar Bay
Cagayan
Iligan Bay
Misamis
Illana Bay
Cotabato
Pollok Hbr.
Mindanao R.
Boroŋ
Olutanga I.
Sibuguey Bay
Basilan I.
Basilan Strait
Tonquil I.
Sanga Sanga
Jolo I.
Siasi I.
Pangutaran Group
Tawitawi I.
Cagayan Is.
Dumaran I.
Tolong
Cauayan
Sanga Sanga I.
120°
122°
124°
126°
10°
8°
6°

C & G S Print

CHARTS OF THE PHILIPPINE ISLANDS—Continued.

Cat. No.	Title.	Scale.	Size of border (inches).	Date of last edition.	Price.
	COAST AND HARBOR CHARTS—Continued.				
	4312 to 4336 (see p. 9). 4405 to 4466 (see p. 11).				
4511	Basilan Strait; Mindanao and Basilan, Is.	1:100,000	30×43	1921	$0.75
4512	Samales Group, Sulu Archipelago	1:100,000	30×43	1906	.75
	Ton Sandungun Channel	1:25,000			
4514	Tawitawi Group, Sulu Archipelago	1:100,000	31×41	1906	.75
	Port Dos Amigos	1:15,000			
	Port Bongao	1:25,000			
	Simanale Bay and Channel	1:25,000			
4541	Anchorages, Jolo Island; Jolo, I.		26×37	1912	.50
	Jolo Anchorage, north coast	1:10,000			
	Dalrymple Harbor, north coast	1:20,000			
	Maibun Bay, south coast	1:40,000			
4542	Jolo Island and vicinity	1:189,000	21×25	1911	.25
4543	Isabela Channel and approaches; Basilan, I.	1:25,000	25×33	1910	.50
4544	Siasi and Lapac Islands	1:30,000	31×40	1906	.75
4603	Surigao Strait and vicinity; Mindanao and Leyte, Is.	1:200,000	34×44	1913	.75
4604	Iligan Bay and vicinity	1:200,000	31×41	1911	.75
4606	Port Sibulan to Polloc Harbor; Mindanao, I.	1:200,000	28×37	1915	.75
4607	Cotabato to Sarangani Bay; Mindanao, I.	1:200,000	31×41	1917	.75
4617	Sibuguey Bay; Mindanao, I.	1:100,000	30×40	1909	.75
4623	Southern part of Davao Gulf; Mindanao, I.	1:100,000	32×41	1913	.75
4624	Northern part of Davao Gulf; Mindanao, I.	1:100,000	32×39	1909	.75
	Davao	1:20,000			
	Malipano Anchorage	1:20,000			
4625	Cape San Augustin to Mayo Bay; Mindanao, I.	1:100,000	26×40	1914	.75
	Balete Bay	1:20,000			
4626	Mayo Bay to Catecl Bay; Mindanao, I.	1:100,000	30×41	1915	.75
4627	Cateel Bay to Jobo Point; Mindanao, I.	1:100,000	29×40	1915	.75
	Lamon Anchorage	1:20,000			
	Catarman Anchorage	1:20,000			
4628	Jobo Point to Tugas Point; Mindanao, I.	1:100,000	39×40	1913	.75
	Bitaugan Bay	1:30,000			
4629	Hinatuan Passage; Mindanao, I.	1:100,000	30×38	1913	.75
	Surigao	1:10,000			
4638	Harbors on Dinagat, Siargao and Bucas Islands		30×37	1913	.75
	Dapa Channel	1:35,000			
	Gaas Bay and Inlet	1:30,000			
	Dinagat	1:20,000			
	Sohutan Bay and Inlet	1:20,000			
	San Roque	1:25,000			
	Port Pilar	1:30,000			
	Malinao Inlet	1:25,000			
4639	Anchorages in Iligan Bay and vicinity; Mindanao, I.		29×35	1911	$0.75
	Plaridel and Inamucan Bay	1:25,000			
	Dapitan and Dipolog	1:40,000			
	Canauayor Anchorage	1:20,000			
	Jimenez	1:20,000			
	Iligan and Overton Anchorages and Quinalang Cove	1:40,000			
	Oroquieta	1:20,000			
	Port Mambajao	1:10,000			
	Cagayan Anchorage	1:20,000			
4640	Port Misamis; Mindanao, I.	1:60,000	26×33	1908	.50
	Port Misamis	1:20,000			
4641	Murcielagos Bay; Mindanao, I.	1:30,000	19×23	1901	.25
4645	Vicinity of Zamboanga Masinloc Anchorage to Caldera Bay; Mindanao, I.	1:30,000	21×37	1912	.50
4647	Agusan River entrance; Mindanao, I.	1:20,000	19×28	1911	.25
	Nasipit Harbor; Mindanao, I.	1:15,000			
4649	Malalag Bay, south coast; Mindanao, I.	1:20,000	23×25	1907	.25
4651	Harbors on the south and west coasts of Mindanao		28×32	1913	.50
	Dumanquilas Bay; Mindanao, I.	1:75,000			
	Taba Bay; Mindanao, I.	1:30,000			
	Port Santa Maria; Mindanao, I.	1:40,000			
	Panabutan and Cauit Bay; Mindanao, I.	1:40,000			
	Sibuco Bay; Mindanao, I.	1:100,000			
4652	Harbors in Illana Bay and vicinity; Mindanao, I.		31×33	1912	.75
	Port Sibulan	1:60,000			
	Port Baras	1:20,000			
	Limbug Cove	1:15,000			
	Port Sambulauan	1:30,000			
	Pagadian Bay	1:50,000			
	Maligay Bay	1:50,000			
4653	Harbors on the south coast of Mindanao, I.		25×34	1919	.50
	Lavigan Anchorage; Mindanao, I.	1:5,000			
	Port Patuco, Sarangani, I.	1:10,000			
	Port Bolay, Sarangani, I.	1:5,000			
	Port Tumanao, west coast; Sarangani, I.	1:15,000			
	Canalasan Cove; Mindanao, I.	1:20,000			
	Basiauang Bay; Mindanao, I.	1:20,000			
	Port Lebak; Mindanao, I.	1:20,000			
	Tuna Bay; Mindanao, I.	1:20,000			
	Port Banga; Mindanao, I.	1:20,000			
4654	Mindanao River Delta and Polloc Harbor; Mindanao, I.	1:50,000	34×41	1917	.75
	Parang and Polloc anchorages	1:20,000			
	Cotabato entrance, Mindanao River	1:20,000			
4655	Mindanao River, upper part; Mindanao, I.	1:50,000	34×42	1909	.75
	Continuation of Buluan and Alip Rivers	1:50,000			


120°
125°
Taiwan
4200
4705
4200
Batan Is
20°
CHINA SEA
PACIFIC
OCEAN
Babuyan Is
LUZON
15°
MANILA BAY
MANILA
Polillo
4706
4714
4715
Catanduanes
MINDORO
Tablas
Sibuyan
MASBATE
SAMAR
Busuanga
Culion
4716
PANAY
LEYTE
Iloilo
CEBU
Cebu
NEGROS
Bohol
10°
PALAWAN
4720
4718
4719
SULU SEA
Balabac
MINDANAO
Zamboanga
Basilan
Jolo
BORNEO
Tawitawi
SULU ARCHIPELAGO
4708
5°
4200
4707
4722
4200

C. & G. S. Print

CHARTS OF THE PHILIPPINE ISLANDS—Continued.

Cat. No.	Title.	Scale, approximate.	Size of border (inches).	Date of last edition.	Price.
	SAILING CHART AND GENERAL CHARTS OF THE COAST.				
4200	Philippine Islands	1:1,600,000	33×49	1918	$0.75
4705	Manila Bay to Taiwan	1:800,000	28×44	1919	.75
4706	Philippine Islands, central part	1:800,000	27×40	1921	.75
4707	Philippine Islands, southwestern part	1:800,000	31×41	1920	.75
4708	Philippine Islands, southeastern part	1:800,000	31×33	1917	.75
4714	Southwestern Luzon and Mindoro	1:395,000	32×39	1920	.75
4715	Southeastern Luzon and parts of Masbate and Samar	1:400,000	30×40	1917	$0.75
4716	Palawan	1:400,000	34×40	1919	.75
4718	Panay, Negros and Cebu, with parts of Bohol and Masbate	1:400,000	31×41	1917	.75
4719	Surigao Strait and Leyte, with parts of Samar and Mindanao	1:400,000	30×40	1915	.75
4720	Balabac Strait and approaches	1:400,000	31×41	1919	.75
4722	Sulu Archipelago	1:400,000	30×42	1911	.75

TABLE OF SCALE EQUIVALENTS.

The following table gives the lengths of nautical and statute miles on the several scales named, these scales being the proportionate size of the chart to nature. That is, in the scale 1:1,200 the chart is 1:1,200 part of the actual linear dimensions in nature (or 100 feet to the inch), equal to 60.8 inches to a nautical mile, and 52.8 inches to a statute mile, and so on.

A nautical mile is a minute of an average great circle of the earth, and its length is 6,080 feet, or 1,853.2 meters. A statute mile is 5,280 feet, or 1,609.3 meters.

Scale.	Nautical mile.		Statute mile.	
	Inches.	Centimeters.	Inches.	Centimeters.
1:1,200	60.803	154.44	52.800	134.11
1:2,400	30.401	77.22	26.400	67.06
1:4,800	15.201	38.61	13.200	33.53
1:5,000	14.593	37.06	12.672	32.19
1:10,000	7.296	18.53	6.336	16.09
1:15,000	4.864	12.36	4.224	10.73
1:20,000	3.648	9.27	3.168	8.05
1:30,000	2.432	6.18	2.112	5.36
1:40,000	1.824	4.63	1.584	4.02
1:50,000	1.459	3.71	1.267	3.22
1:60,000	1.216	3.09	1.056	2.68
1:80,000	.912	2.32	.792	2.01
1:100,000	.730	1.85	.634	1.61
1:200,000	.365	.93	.317	.80
1:400,000	.182	.46	.158	.40
1:1,000,000	.073	.18	.063	.16
1:1,200,000	.061	.15	.053	.13

1 meter=39.37 inches; 1 centimeter=0.3937 inch; 1 inch=2.54 centimeters.